

ABSTRACT

A wireless network system for enabling good communications, while minimizing the electricity consumption of a portable terminal, is described. Included are: a first relay device 4a including first and second Bluetooth® (BT) modules ① and ②. Each of the BT modules performs a cable communication irrespective of which is a master/slave. The system also includes a second relay device 4b including a fourth BT module ④; a wireless terminal 3 including a third BT module ③; and a wireless terminal 3 including a fifth BT module. The first and third BT modules structure a first piconet in which the first BT model ① is a master and the third BT module ③ is a slave, and the second, fourth, and fifth 10 BT modules structure a second Piconet in which the fourth BT module ④ is a master, and the second and fifth BT modules ② and ⑤ are slaves.